

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

Claim 1 (Currently Amended). A shaped body, comprising:

a supporting gel layer comprised of a polyurethane polymer gel shaped with integral supports on its upper side which are spaced apart from each other via expansion channels;

a polyurethane foam layer resting on the integral supports of the supporting gel layer; and

an upper covering on an upper side of the polyurethane foam layer, where the expansion channels are covered with the polyurethane foam layer or are at least partially filled with integral projections protruding from a lower side of the polyurethane foam layer and entering into the expansion channels,

and wherein the polyurethane foam layer is bonded to the supports of the supporting gel layer by an adhesive.

Claim 2 (Previously presented). The shaped body as claimed in claim 1, wherein the integral supports are at a narrower distance from one another in the region of the pressure peaks which occur under load.

Claim 3 (Previously presented). The shaped body as claimed in claim 1, wherein the integral supports are of columnar design.

Claim 4 (Previously presented). The shaped body as claimed in claim 1, wherein said expansion channels are partially filled with integral projections protruding from said lower side of the polyurethane foam layer which enter into the expansion channels of the supporting gel layer.

Claim 5 (Previously presented). The shaped body as claimed in claim 1, wherein the upper covering is a spacer knit which consists of two textile surfaces

connected to each other by spacer threads.

Claim 6 (Previously presented). The shaped body as claimed in claim 1, wherein the polyurethane foam layer completely or partially laterally encloses the supporting gel layer.

Claim 7 (Previously presented). The shaped body as claimed in claim 1, wherein the supporting gel layer, after a film has been produced together with it pulled off, is bonded to the polyurethane foam layer.

Claim 8. Canceled

Claim 9 (Previously presented). The shaped body as claimed in claim 4, wherein the integral projections of the polyurethane foam layer extend as far as a bottom of the expansion channels.

Claim 10 (Previously presented). The shaped body as claimed in claim 9, wherein the projections of the polyurethane foam layer are supported on the bottom of the expansion channels.

Claim 11 (Previously presented). The shaped body as claimed in claim 1, wherein the chemical structure of the polyurethane polymer gel consists of long polymer threads and only a few linkages without added plasticizers being used.

Claim 12 (previously presented). The shaped body as claimed in claim 1, wherein the chemical structure of the polyurethane polymer gel is an undercrosslinked polyurethane based on polyols and polyisocyanates or polyethers and polyisocyanates.

Claim 13 (previously presented). The shaped body as claimed in claim 12, wherein the polyurethane polymer gel compounds are produced using starting materials having an isocyanate functionality of the polyol component of at least

5.2.

Claim 14 (previously presented). The shaped body as claimed in claim 12, wherein the polyol component for producing the polyurethane polymer gel consists of a mixture of

- a) one or more polyols, having hydroxyl numbers under 112, and
- b) one or more polyols having hydroxyl numbers in the range of from 112 to 600, the weight ratio of component a) to component b) being between 90:10 and 10:90, the characteristic isocyanate number of the reaction mixture lying in the range of from 15 to 60, and the product from the isocyanate functionality and functionality of the polyol component being at least 6.

Claim 15 (previously presented). The shaped body as claimed in claim 12, wherein the polyol component for producing the polyurethane polymer gel consists of one or more polyols having a molecular weight of between 1000 and 12 000 and an OH number of between 20 and 112, the product of the functionalities of the polyurethane-forming components being at least 5 and the characteristic isocyanate number being between 15 and 60.

Claim 16 (currently amended). The shaped body as claimed in claim 12, wherein the isocyanates used for the production of the polyurethane polymer gel gels are those of the formula Q (NCO) in which N is 2 to 4 and Q is an aliphatic hydrocarbon radical having 8 to 18 C atoms, a cycloaliphatic hydrocarbon radical having 4 to 15 C atoms, an aromatic hydrocarbon radical having 6 to 15 C atoms or an araliphatic hydrocarbon radical having 8 to 15 C atoms.

Claim 17 (previously presented). The shaped body as claimed in claim 12, wherein the polyurethane polymer gel is produced with isocyanates in a pure form or with urethanized, allophanisized, biurethisized or functionally correspondingly modified isocyanates.

Claim 18 (Previously presented). A shaped body, comprising:

a polyurethane gel layer formed from an undercrosslinked polyurethane based on polyols and polyisocyanates or polyethers and polyisocyanates, said polyurethane gel layer has on a first side integral supports which are spaced apart from one another via expansion channels, said polyurethane gel layer contains elastic hollow microbeads or coarse grained solid particles as filler;

a polyurethane foam layer positioned over said first side of said polyurethane gel layer; and

a covering positioned over said polyurethane foam layer.

Claim 19 (previously presented). The shaped body as claimed in claim 18, wherein the hollow microbeads are made from polymeric material.

Claim 20 (Previously presented). The shaped body as claimed in claim 18, wherein the hollow microbeads are coated with a covering layer of an organic material.

Claim 21 (Previously presented). The shaped body as claimed in claim 18, wherein the hollow microbeads have a diameter of 10 μm to 150 μm .

Claim 22 (Previously presented). The shaped body as claimed in claim 18, wherein the content of hollow microbeads in the gel material is 0.1 to 10% by weight.

Claim 23 (Previously presented). The shaped body as claimed in claim 18, wherein coarse-grained solid particles are selected from the group consisting of small pieces of cork, cork powder, small pieces of wood, wood shavings, foam flakes, styropor, textile fibers or pieces or textile are distributed in the gel compound.

Claim 24 (Original). The shaped body as claimed in claim 23, wherein the diameter of the solid particles is between 0.1 and 15 mm.

Claim 25 (previously presented) The shaped body of claim 19 wherein the polymeric material from which the hollow microbeads are made is polyolefin.

Claim 26 (previously presented) The shaped body of 20 wherein the covering layer of an organic material is calcium carbonate.

Claim 27 (previously presented) The shaped body of claim 18 wherein said shaped body forms at least part of a seat cushion.

Claim 28 (previously presented). The shaped body of claim 1 wherein said shaped body forms at least part of a seat cushion.

Claim 29 (currently amended). The shaped body of claim 13 wherein the isocyanate functionality of the polyol component is at least 6.5.

Claim 30 (currently amended). The shaped body of claim 13 wherein the isocyanate functionality of the polyol component is at least 7.5.